

FORM PTO - 1449 INFORMATION DISCLOSURE STATEMENT				ATTORNEY DOCKET NO.: ACX-128 APPLICANTS: Spangler et al. SERIAL NO.: 09/491,969 FILING DATE: 1/27/00 GROUP: 3632 3729			
U.S. PATENT DOCUMENTS							
EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
M	A1	3,582,691	06/71	Sonderegger et al.	310	328	
	A2	4,054,808	10/77	Tanaka	310	366	
	A3	4,240,002	12/80	Tosi et al.	310	324	
	A4	4,363,991	12/82	Edelman	310	338	
	A5	4,458,173	7/84	Kaufman et al.	310	330x	
	A6	4,461,179	07/84	Holt	73	658	
	A7	4,578,611	03/86	Sadler	310	338	
	A8	4,611,141	09/86	Mahada et al.	310	334	
	A9	4,651,310	03/87	Kaneko et al.	310	800	
	A10	4,680,595	07/87	Cruz-Urbe et al.	346	140	
	A11	4,732,351	03/88	Bird	310	800	
	A12	4,742,264	5/88	Ogawa	310	332	
	A13	4,761,582	08/88	McKee	310	322	
	A14	4,849,668	07/89	Crawley et al.	310	328	
	A15	4,857,887	08/89	Iten	310	340	
	A16	4,864,179	09/89	Lapetina et al.	310	366	
	A17	4,914,565	04/90	Schnoeller et al.	310	366	
	A18	5,305,507	04/94	Dvorsky et al.	310	340	
	A19	5,315,203	05/94	Bicos	310	358	
	A20	5,404,067	4/95	Stein et al.	310	330	
	A21	5,415,175	05/95	Hanafy et al.	128	662.03	
	A22	5,438,998	08/95	Hanafy	128	662.03	
	A23	5,493,541	02/96	Snyder	367	155	
M	A24	5,632,841	05/97	Hellbaum			



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				SERIAL NO.: 09/491,969			
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				GROUP: 3632			




MT	A25	5,656,882	08/97	Lazarus et al.	310	328	
	A26	3,573,511	4/71	Noren et al.	310	8.6	
	A27	3,582,691	6/71	Sonderegger et al.	310	8.4	
	A28	4,194,194	3/80	Redfern	340	566	
	A29	4,976,415	12/90	Murai et al.	267	136	
	A30	5,030,007	7/91	Calhoun et al.	356	346	
	A31	5,042,784	8/91	Murai	267	136	
	A32	5,285,995	2/94	Gonzalez et al.	248	550	
	A33	5,379,980	1/95	Houghton et al.	248	550	
	A34	5,448,232	9/95	Tyburski	340	933	
	A35	5,458,222	10/17/95	Pla Frederic G et al.	188	378	
	A36	5,473,214	12/95	Hildebrand	310	321	
	A37	5,525,853	6/96	Nye et al.	310	316	
	A38	5,579,084	11/96	Takahashi et al.	355	53	
	A39	5,622,748	4/97	Takeuchi et al.	427	100	
	A40	5,650,853	7/97	Honda	356	359	
	A41	5,765,800	6/98	Watanabe et al	248	550	
	A42	5,802,966	9/98	Schoch	100	35	
	A43	5,881,987	3/99	Hara	248	550	
	A44	5,894,651	4/99	Dvorsky et al.	310	344	12/23/93
	A45	6,008,881	12/99	Warmerdam et al.	355	53	
	A46	6,031,598	2/00	Hara	248	550	
	A47	6,060,813	5/00	Nowak	310	314	
	A48	6,062,551	5/00	Oku et al.	267	140	
MT	A49	6,069,683	5/00	Iwamoto	355	53	

FOREIGN PATENT DOCUMENTS

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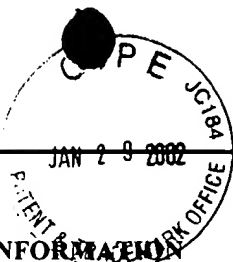
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EXAM. INIT.	DOCUMENT NUMBER	DATE	COUNTRY CODE	CLASS	SUB CLASS	FILING DATE	ABSTRACT ONLY	ENGLISH LANG Y/N
mf	B1	WO 91/12953	PCT					
	B2	0 005 265	EP					
	B3	1370164	G.B.	310	324			
	B4	24 35 910	German	310	324			
	B5	03265734	JP					
	B6	06053114	JP					
	B7	9520827	WO					
	B8	08326835	JP					
✓	B9	11008181	JP					

OTHER ART, JOURNAL ARTICLES, ETC.	
EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)
mf	C1 R/flex Circuit Materials Product Data Sheet DS20903J, "Flex-I-MID 3000, High Performance Adhesiveless Circuit Materials", by Rogers Corporation, Microwave and Circuit Materials Division.

EXAMINER M. Trinh	DATE CONSIDERED 9/24/03
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SHEET 1 OF 1

FORM PTO - 1449

SUPPLEMENTAL INFORMATION
DISCLOSURE STATEMENT

ATTY DOCKET NO.: ACX-128

APPLICANT: Spangler et al.

SERIAL NO.: 09/491,969

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U.S. PATENT DOCUMENTS

EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
mt	A50	5,656,882	8/12/97	Lazarus et al.	310	328	
	A51	5,687,462	11/18/97	Lazarus et al.	29	25.35	
mt	A52	6,069,433	5/30/00	Lazarus et al.	310	333	
✓	A53	5,458,222	10/17/95	Pla et al.	188	378	

FOREIGN PATENT DOCUMENTS

EXAM. INIT.		DOCUMENT NUMBER	DATE	COUNTRY CODE	CLASS	SUB CLASS	FILING DATE	ABSTRA CT ONLY	ENGLISH LANG Y/N

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FORM PTO - 1449				ATTY DOCKET NO.: ACX-128					
SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT				APPLICANT: Spangler et al. SERIAL NO.: 09/491,969 FILING DATE: January 27, 2000 GROUP: 3632					
U.S. PATENT DOCUMENTS									
EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE		
M	A54	5,133,527	7/28/92	Chen et al.	248	550			
	A55	5,156,370	10/20/92	Silcox et al.	248	550			
	A56	5,209,326	5/11/93	Harper	188	378			
	A57	5,610,686	3/11/97	Osana	355	72			
	A58	5,626,332	5/6/97	Phillips et al.	267	140.14			
	A59	5,970,168	10/19/99	Montesanto et al.	382	149			
	A60	5,982,128	11/9/99	Lee	318	568.16			
	A61	6,011,373	1/4/00	McConnell et al.	318	560			
	A62	6,271,640	8/7/01	Lee	318	560			
↓	A63	6,294,891B1	9/25/01	McConnell et al.	318	619			
FOREIGN PATENT DOCUMENTS									
EXAM. INIT.		DOCUMENT NUMBER	DATE	COUNTRY CODE	CLASS	SUB CLASS	FILING DATE	ABSTRAC T ONLY	ENGLISH LANG Y/N
OTHER ART, JOURNAL ARTICLES, ETC.									
EXAM. INIT.		OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)							
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